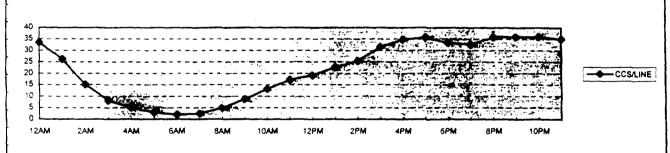
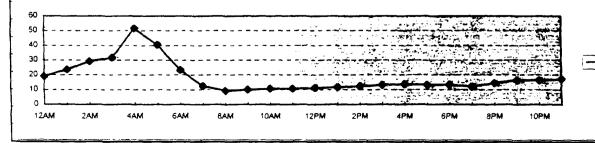
	Hempstead DMS-10	0 DS0	Data for Sur	nday March 3	, 1 <u>99</u> 6	
	632	Line MLHG	(14.4/9.6)		1	
HOURS	CALL ATTEMPTS	OVERFLOW	USAGE	CCS/LINE	HOLD TIME	(min)
12AM	1,884	36	21,151	33	. 19	
1AM	1,165	0	16,590	26	24	
2AM	547	0	9,570	15	29	
3AM	274	0	5,220	8	32	
4AM	103	0	3,193	5	52	
5AM	79	0	1,918	3	40	
6AM	94	0	1,313	2	23	
7AM	219	0	1,626	3	12	i
8AM	560	0	3,103	5	9	
9AM	926	0	5,574	9	10	
10AM	1,314	0	8,397	13	11	
11AM	1,699	0	10,823	17	11	
12PM	1,812	0	12,144	19	11	
1PM	2,050	0	14,325	23	12	
2PM	2,191	0	16,096	25	12	
3РМ	2,534	0	19,928	32	13	
4PM	2,859	180	21,983	35	14	
5PM	3,764	915	22,561	36	13	
6PM	2,839	185	21,046	33	13	
7PM	2,902	71	20,610	33	12	
8PM	5,621	3,019	22,641	36	15	
9PM	8,210	5,909	22,701	36	16	
10PM	7,251	4,931	22,714	36	16	\$9.95/mo 1st 5 hrs
11PM	3,807	1,662	22,076	35	17	(each addit hr \$2.95
Total	54,704	16,908	327,303	22	14	

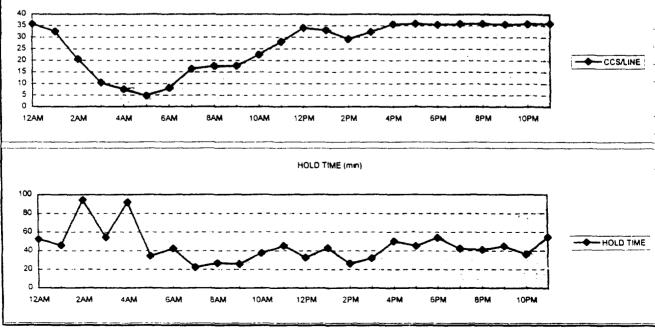








12AM 564 539 786 36 52 1AM 89 63 716 33 46 2AM 8 0 454 21 95 3AM 7 0 229 10 55 4AM 3 0 166 8 92 5AM 5 0 103 5 34 6AM 7 0 179 8 43 7AM 27 0 363 17 22 8AM 24 0 386 18 27 9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1 1PM 102 74 724 33 43 3 2PM <	HOURS CALL ATTEMPTS OVERFLOW USAGE CCS/LINE HOLD TIME (min) 12AM 564 539 786 36 52 1AM 89 63 716 33 46 2AM 8 0 454 21 95 3AM 7 0 229 10 55 4AM 3 0 166 8 92 5AM 5 0 103 5 34 6AM 7 0 179 8 43 7AM 27 0 363 17 22 8AM 24 0 386 18 27 9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33		Hempstead DMS-10				uary 8, 1996	
12AM 564 539 786 36 52 1AM 89 63 716 33 46 2AM 8 0 454 21 95 3AM 7 0 229 10 55 4AM 3 0 166 8 92 5AM 5 0 103 5 34 6AM 7 0 179 8 43 7AM 27 0 363 17 22 8AM 24 0 386 18 27 9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1 1PM 102 74 724 33 43 3 2PM <	12AM 564 539 786 36 52 1AM 89 63 716 33 46 2AM 8 0 454 21 95 3AM 7 0 229 10 55 4AM 3 0 166 8 92 5AM 5 0 103 5 34 6AM 7 0 179 8 43 7AM 27 0 363 17 22 8AM 24 0 386 18 27 9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1 1PM 102 74 724 33 43 3 2PM <		22	Line MLHG	(28.8/14.4/	9.6)		· · · · · · · · · · · · · · · · · · ·
1AM 89 63 716 33 46 2AM 8 0 454 21 95 3AM 7 0 229 10 55 4AM 3 0 166 8 92 5AM 5 0 103 5 34 6AM 7 0 179 8 43 7AM 27 0 363 17 22 8AM 24 0 386 18 27 9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36	1AM 89 63 716 33 46 2AM 8 0 454 21 95 3AM 7 0 229 10 55 4AM 3 0 166 8 92 5AM 5 0 103 5 34 6AM 7 0 179 8 43 7AM 27 0 363 17 22 8AM 24 0 386 18 27 9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1 1PM 102 74 724 33 43 1 2PM 59 18 643 29 26 1 3PM 87 50 712 32 32 32 4PM 17	HOURS	CALL ATTEMPTS	OVERFLOW	USAGE	CCS/LINE	HOLD TIME	(min)
2AM 8 0 454 21 95 3AM 7 0 229 10 55 4AM 3 0 166 8 92 5AM 5 0 103 5 34 6AM 7 0 179 8 43 7AM 27 0 363 17 22 8AM 24 0 386 18 27 9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36	2AM 8 0 454 21 95 3AM 7 0 229 10 55 4AM 3 0 166 8 92 5AM 5 0 103 5 34 6AM 7 0 179 8 43 7AM 27 0 363 17 22 8AM 24 0 386 18 27 9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36	12AM	564	539		36	52	
3AM 7 0 229 10 55 4AM 3 0 166 8 92 5AM 5 0 103 5 34 6AM 7 0 179 8 43 7AM 27 0 363 17 22 8AM 24 0 386 18 27 9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1PM 102 74 724 33 43 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153	3AM 7 0 229 10 55 4AM 3 0 166 8 92 5AM 5 0 103 5 34 6AM 7 0 179 8 43 7AM 27 0 363 17 22 8AM 24 0 386 18 27 9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432	1AM	89	63	716	33	46	
4AM 3 0 166 8 92 5AM 5 0 103 5 34 6AM 7 0 179 8 43 7AM 27 0 363 17 22 8AM 24 0 386 18 27 9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1PM 102 74 724 33 43 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 <td>4AM 3 0 166 8 92 5AM 5 0 103 5 34 6AM 7 0 179 8 43 7AM 27 0 363 17 22 8AM 24 0 386 18 27 9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36<!--</td--><td>2AM</td><td>8 .</td><td>0</td><td>454</td><td>21</td><td>95</td><td></td></td>	4AM 3 0 166 8 92 5AM 5 0 103 5 34 6AM 7 0 179 8 43 7AM 27 0 363 17 22 8AM 24 0 386 18 27 9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 </td <td>2AM</td> <td>8 .</td> <td>0</td> <td>454</td> <td>21</td> <td>95</td> <td></td>	2AM	8 .	0	454	21	95	
5AM 5 0 103 5 34 6AM 7 0 179 8 43 7AM 27 0 363 17 22 8AM 24 0 386 18 27 9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865<	5AM 5 0 103 5 34 6AM 7 0 179 8 43 7AM 27 0 363 17 22 8AM 24 0 386 18 27 9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1 1PM 102 74 724 33 43 33 1 1PM 102 74 724 33 43 3 1 2PM 59 18 643 29 26 3 3PM 87 50 712 32 32 32 4PM 179 153 784 36 50 50 5PM 461 432	3AM	7	0	229	10	55	
6AM 7 0 179 8 43 7AM 27 0 363 17 22 8AM 24 0 386 18 27 9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1PM 102 74 724 33 43 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790	6AM 7 0 179 8 43 7AM 27 0 363 17 22 8AM 24 0 386 18 27 9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784	4AM	3	0	166	8	92	
7AM 27 0 363 17 22 8AM 24 0 386 18 27 9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1PM 102 74 724 33 43 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714	7AM 27 0 363 17 22 8AM 24 0 386 18 27 9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471	5AM	5	0	103	5	34	
8AM 24 0 386 18 27 9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hrs 10PM 508 472 788 36 36 (each addit hr \$2.50)	8AM 24 0 386 18 27 9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hr. 10PM 508 472 788 36 36 (each addit hr \$2.	6AM	7	0	179	8	43	
9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hrs 10PM 508 472 788 36 36 (each addit	9AM 25 0 388 18 26 10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hr. 10PM 508 472 788 36 36 (each addit	7AM	27	0	363	17	22	
10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hrs 10PM 508 472 788 36 36 (each addit hr \$2.50) 11PM 573 549 791 36	10AM 22 0 497 23 38 11AM 112 73 618 28 45 12PM 158 120 749 34 33 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hrs 10PM 508 472 788 36 36 (each addit hr \$2. 11PM 573 549 791 36 55 \$19.95/mo unlimit Total 5,355 4,762 14,009 <td< td=""><td>8AM</td><td>24</td><td>0</td><td>386</td><td>. 18</td><td>27</td><td></td></td<>	8AM	24	0	386	. 18	27	
11AM 112 73 618 28 45 12PM 158 120 749 34 33 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hrs 10PM 508 472 788 36 36 (each addit hr \$2.50) 11PM 573 549 791 36 55 \$19.95/mo unlimited h Total 5,355 4,762 14,009 27 39	11AM 112 73 618 28 45 12PM 158 120 749 34 33 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hr 10PM 508 472 788 36 36 (each addit hr \$2. 11PM 573 549 791 36 55 \$19.95/mo unlimit Total 5,355 4,762 14,009 27 39	9AM	25	0	388	18	26	
12PM 158 120 749 34 33 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hrs 10PM 508 472 788 36 36 (each addit hr \$2.50) 11PM 573 549 791 36 55 \$19.95/mo unlimited h Total 5,355 4,762 14,009 27 39	12PM 158 120 749 34 33 1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hr 10PM 508 472 788 36 36 (each addit hr \$2. 11PM 573 549 791 36 55 \$19.95/mo unlimit Total 5,355 4,762 14,009 27 39	10AM	22	0	497	23	38	
1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hrs 10PM 508 472 788 36 36 (each addit hr \$2.50) 11PM 573 549 791 36 55 \$19.95/mo unlimited h Total 5,355 4,762 14,009 27 39	1PM 102 74 724 33 43 2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hrs 10PM 508 472 788 36 36 (each addit hr \$2.5 11PM 573 549 791 36 55 \$19.95/mo unlimit Total 5,355 4,762 14,009 27 39	11AM	112	73	618	28	45	
2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hrs 10PM 508 472 788 36 36 (each addit hr \$2.50) 11PM 573 549 791 36 55 \$19.95/mo unlimited h Total 5,355 4,762 14,009 27 39	2PM 59 18 643 29 26 3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hr 10PM 508 472 788 36 36 (each addit hr \$2. 11PM 573 549 791 36 55 \$19.95/mo unlimit Total 5,355 4,762 14,009 27 39	12PM	158	120	749	34	33	
3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hrs 10PM 508 472 788 36 36 (each addit hr \$2.50) 11PM 573 549 791 36 55 \$19.95/mo unlimited h Total 5,355 4,762 14,009 27 39	3PM 87 50 712 32 32 4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hr 10PM 508 472 788 36 36 (each addit hr \$2. 11PM 573 549 791 36 55 \$19.95/mo unlimit Total 5,355 4,762 14,009 27 39	1PM	102	74	724	33	43	
4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hrs 10PM 508 472 788 36 36 (each addit hr \$2.50) 11PM 573 549 791 36 55 \$19.95/mo unlimited h Total 5,355 4,762 14,009 27 39	4PM 179 153 784 36 50 5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hr 10PM 508 472 788 36 36 (each addit hr \$2. 11PM 573 549 791 36 55 \$19.95/mo unlimit Total 5,355 4,762 14,009 27 39	2PM	59	18	643	29	26	i
5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hrs 10PM 508 472 788 36 36 (each addit hr \$2.50) 11PM 573 549 791 36 55 \$19.95/mo unlimited h Total 5,355 4,762 14,009 27 39	5PM 461 432 789 36 45 6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hr 10PM 508 472 788 36 36 (each addit hr \$2. 11PM 573 549 791 36 55 \$19.95/mo unlimit Total 5,355 4,762 14,009 27 39	3PM	87	50	712	32	32	
6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hrs 10PM 508 472 788 36 36 (each addit hr \$2.50) 11PM 573 549 791 36 55 \$19.95/mo unlimited h Total 5,355 4,762 14,009 27 39	6PM 254 230 781 36 54 7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hr 10PM 508 472 788 36 36 (each addit hr \$2. 11PM 573 549 791 36 55 \$19.95/mo unlimit Total 5,355 4,762 14,009 27 39	4PM	179	153	784	36	50	
7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hrs 10PM 508 472 788 36 36 (each addit hr \$2.50) 11PM 573 549 791 36 55 \$19.95/mo unlimited h Total 5,355 4,762 14,009 27 39	7PM 896 865 789 36 42 8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hr 10PM 508 472 788 36 36 (each addit hr \$2. 11PM 573 549 791 36 55 \$19.95/mo unlimit Total 5,355 4,762 14,009 27 39	5PM	461	432	789	36	45	
8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hrs 10PM 508 472 788 36 36 (each addit hr \$2.50) 11PM 573 549 791 36 55 \$19.95/mo unlimited h Total 5,355 4,762 14,009 27 39	8PM 714 682 790 36 41 9PM 471 442 784 36 45 \$9.95/mo 1st 5 hr 10PM 508 472 788 36 36 (each addit hr \$2. 11PM 573 549 791 36 55 \$19.95/mo unlimit Total 5,355 4,762 14,009 27 39	6PM	254	230	781	36	54	
9PM 471 442 784 36 45 \$9.95/mo 1st 5 hrs 10PM 508 472 788 36 36 (each addit hr \$2.50) 11PM 573 549 791 36 55 \$19.95/mo unlimited h Total 5,355 4,762 14,009 27 39	9PM 471 442 784 36 45 \$9.95/mo 1st 5 hr 10PM 508 472 788 36 36 (each addit hr \$2.10) 11PM 573 549 791 36 55 \$19.95/mo unlimit Total 5,355 4,762 14,009 27 39	7PM	896	865	789	36	42	1
10PM 508 472 788 36 36 (each addit hr \$2.50) 11PM 573 549 791 36 55 \$19.95/mo unlimited h Total 5,355 4,762 14,009 27 39	10PM 508 472 788 36 36 (each addit hr \$2.10) 11PM 573 549 791 36 55 \$19.95/mo unlimit Total 5,355 4,762 14,009 27 39	8PM	714	682	790	36	41	
11PM 573 549 791 36 55 \$19.95/mo unlimited h Total 5,355 4,762 14,009 27 39	11PM 573 549 791 36 55 \$19.95/mo unlimit Total 5,355 4,762 14,009 27 39	9PM	471	442	784	36	45	\$9.95/mo 1st 5 hrs
Total 5,355 4,762 14,009 27 39	Total 5,355 4,762 14,009 27 39	10PM	508	472	788	36	36	(each addit hr \$2.50)
		11PM	573	549	791	36	55	\$19.95/mo unlimited hi
CCSAINE	CCSA,INE	Total	5,355	4,762	14,009	27	39	
						,		



	West St DMS-100 D	S0 Line MLHG		onday April	22, 1996	
			(28.8/14.4			
HOURS	CALL ATTEMPTS				HOLD TIME	(min)
12AM	376	3	5,100	27	23	·
1AM	302	0	4,973	26	27	-
2AM	58	0	2,211	12	64	
3AM	26	0	1,270	7	81	
4AM	25	0	754	4	50	
5AM	35	0	251	1	12	
6AM	40	0	847	4	35	
7AM	81	0	1,181	. 6	24	
8AM	147	0	1,985	10	23	·
9AM	260	0	2,910	15	19	·
10AM	330	0	4,247	22		i
11AM	233	0	3,789	20		:
12PM	295	0	4,091	21		!
1PM	278	0	3,930	21		·
2PM	303	0	4,320	23	47	
3PM	315	0	4,436	23	23	
4PM	393	0	4,586	24		
5PM	318	0	4,771	25	25	
6PM	360	0	4,337	23	20	!
7PM	348	0	4,230	22	20	į ,
8PM	408	0	4,501	24	10	1
9PM	420	0	4,530	24	18	\$9.95/mo 1st 5 hrs
10PM	511	0	5,174	27	17	(each addit hr \$2.50)
11PM	510	36	5,203	27	18	\$19.95/mo unlimited hr
Total	6,372	39	83,627	19	22	·
30 25 20 15			CCS/LINE			CCSLINE
T {			12P M 21	PM 4PM	5PM 8PM	10PM
0 L	2AM 4AM 6AM	8AM 10AM				
-	2AM 4AM 6AM	8AM 10AM	HOLD TIM			
90 80	2AM 4AM 6AM	8AM 10AM				
12AM 90	2AM 4AM 6AM	SAM 10AM				
90 80 70	2AM 4AM 6AM	SAM 10AM				—— HOLD TIM
90 80 70 50 40 30	2AM 4AM 6AM	SAM 10AM				—— HOLD TIM

	GRCYNYGCDS0 5	ESS DS0	Data for I	Monday Febru	ary 19, 1996	
			(14.4)			
HOURS	CALL ATTEMPTS	OVERFLOW	USAGE	CCS/LINE	HOLD TIME	1
12AM	228	0	4,920	24	36	
1AM	93	0	3,520	18	63	
2AM	53	0	2,047	10	64	
3AM	36	0	1,618	8	75	
4AM	19	0	1,103	5	97	1
5AM	15	0	663	3	74	1
6AM	30	0	571	3	32	
7AM	85	0	697	3	14	
MA8	133	0	1,430	. 7	18	
9AM	177	0	1,636	8	15	!
10AM	304	0	2,713	13	15	
11AM	309	0	3,621	18	20	
12PM	353	0	3,457	17	16	
1PM	272	0	3,402	17	21	
2PM	337	0	3,886	19	19	
3PM	291	0	4,370	22	25	
4PM	293	0	4,129	21	23	
5PM	357	0	4,587	23	21	
6PM	341	0 .	4,266	21	21	\$9.95/mo 1st 5 hrs
7P M	361	0	4,002	20	18	(each addit hr \$2.95)
8PM	386	0	4,880	24	21	\$14.99/mo 1st 15 hrs
9P M	481	0	5,335	27	18	(each addit hr \$2.95)
10PM	530	0	6,137	31	19	\$29.99/mo 1st 30 hrs
11PM	337	0 ,	5,606	20	28	(each addit hr \$2.95)
Total	5,821	0	78,596	16	23	
35 30 25 22 20			CCSAINE			—— CCS/LINE
5 0 12AM	2AM 4AM 6AM	8AM 10AM	12PM 2	PM 4PM	6PM 8PM	10PM
			HOLD TIME ((min)		
80						
80						HOLD TIM

.

	White PlainsDMS-10		(14.4)	esday Februa	, = -,	
HOURS	CALL ATTEMPTS		USAGE	CCS/LINE	HOLD TIME	/min
12AM	102	OVERILOW	2,482	19	. 41	(mm)
1AM	45		1,521	12	56	
2AM	28	0	944	7	56	
3AM	8	<u>_</u>	492	4	103	
4AM	6	-	364	3	101	
5AM	8	0	264	<u>3</u>	55	
6AM		<u> </u>	269	2	22	
7AM	53		465		15	
8AM	93	<u>_</u>	758	6	14	
9AM	126		1,023	8	14	
10AM	195		1,631	13	14	i
11AM	204		1,085	8	9	1
12PM	212	0	2,013	16	16	
1PM	191	0	2,345	18	20	
2PM	182	<u>ō</u>	1,995	16	18	
3PM	200	0	2,105	16	18	
4PM	250		2,427	19	16	
5PM	269	0	2,534	20	16	
6PM	172	0	1,983	15	19	\$9.95/mo 1st 5 hrs
7PM	214	0	2,132	17	17	(each addit hr \$2.95)
8PM	264	0	2,771	22	17	\$14.99/mo 1st 15 hrs
9PM	247	0	3,382	26	23	(each addit hr \$2.95)
10PM	240	0	3,524	28	24	\$29.99/mo 1st 30 hrs
11PM	206	0	3,132	24	25	(each addit hr \$2.95)
Total	3,535	0	41,641	14	20	1
· · · · · · · · · · · · · · · · · · ·			CCS/LINE			<u> </u>
25						
15		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			***************************************	
5						
12AM	2AM 4AM 6AM	8AM 10AM	12PM 2PF	M 4PM	5PM 8PM	10 PM
			HOLD TIME (m	nn)		
120						
80						HOLD TIM
20					*******	

ATTACHMENT E

Technological Alternatives

Bell Atlantic and NYNEX are investigating various alternatives in an attempt to alleviate congestion problems on their networks. These alternatives are segregated into two categories: Overlay Network Architecture solutions and Data Off Load solutions. These solutions are designed to be used in connection with packet data networks such as Bell Atlantic's Internet Protocol Routing Service (IPRS) and NYNEX's Information Protocol Access Service (IPAS).

IPRS and IPAS provide for the collection, concentration and management of the ISPs' traffic within a LATA using the Transmission Control Protocol/Internet Protocol (TCP/IP) standard. These services consist of network routers (located at LATA hub sites) which collect dial-up or dedicated access data traffic, concentrate the traffic, and route it via packet data services between the ISP customer's network and its end users. Currently Switched Multimegabit Data Service ("SMDS") is the transport mechanism for IPRS, while IPAS will use Frame Relay ("FR") service for transport. ISPs purchase ports that provide 23 call paths and can be configured for analog, ISDN, DDS, DS1 or frame relay (56 kbps or 1.544 Mbps) IPRS does not include connections to the end user access service, which are provided through the existing circuit-switched public telephone network.

In addition to providing more efficient transport of Internet calls, IPRS and IPAS help to reduce the adverse impact on the circuit-switched network by alleviating congestion at the central offices that serve ISPs. They do not bypass the end user's originating central office switch, however, so they will not relieve congestion at that location.

IPRS became available in April 1996 (Bell Atlantic Tariff F.C.C. No. 1, Section 16). IPAS will be available later this year.

The following solutions are all under study. Neither Bell Atlantic nor NYNEX has determined whether any will be cost-effective, and neither company has committed to deploying them.

1. OVERLAY NETWORK ARCHITECTURE SOLUTIONS

The following alternatives use a separate network for transporting Internet traffic:

Data Interceptor Plans

These involve the use of data intercept equipment to remove a significant portion of Internet traffic from the public switched network at the line side of the end user's serving switch. Specifically, these proposals include 1) deploying data interceptor equipment in front of the end user's serving switches to divert the heaviest Internet traffic volumes from the switch; 2) deploying equipment to concentrate Internet traffic from the data interceptors and the serving switch; 3) adding router equipment to existing hubs, and creating new hub routers to permit packet data handoff to ISPs if required; 4) augmenting the packet-switched data network where required; and 5) in some cases utilizing SS7 Queries to route Internet users to dedicated

equipment. This alternative will reduce congestion in originating and terminating switches and on inter-office networks, but its success depends upon all ISPs providing Bell Atlantic and NYNEX with up-to-date lists of their access telephone numbers.

Trunk Side Redirect to Overlay Network

This alternative involves redirecting Internet traffic to a dedicated network after the traffic is switched through the serving switch, but minimizing the impact on other users of that switch, by 1) adding special line side equipment to the serving switch designed to eliminate call blocking; 2) augmenting the PSTN for ISDN traffic; 3) deploying equipment designed to concentrate Internet traffic from the data interceptors and the serving switch; 4) adding router equipment to existing hubs, and creating new hub routers to permit packet data handoff to ISPs if required; and 5) augmenting the packet-switched data network where required. Disadvantages are that 1) this alternative does not eliminate congestion on the line side of the customer's serving central office switch; 2) it requires a substantial investment; and 3) significant labor costs will be incurred to transfer lines from existing to new equipment.

2. DATA OFF LOAD SOLUTIONS

The following alternatives could be used to divert a portion of Internet traffic off of the existing or overlay networks:

x Digital Subscriber Line (xDSL) Solution

This alternative would use the proposed ISDN Digital Subscriber Line and Asymmetrical Digital Subscriber Line services. Initial analysis shows that this alternative will remove some traffic from the serving switch and the existing or overlay network. However, xDSL technology can currently be used in a limited number of locations, because it is compatible with only certain types of existing copper cable plant.

Switched Broadband Network (SBN) Solution

This alternative involves transporting Internet data over a separate Switched Broadband Network. The advantages are: 1) it provides a totally integrated line; 2) it allows for high bandwidth; and 3) it has a high level of flexibility for future applications. The disadvantages include: 1) delay, because high speed data capability over the SBN will not be available until late 1998 at the earliest; 2) many unknowns, such as ease of deployment, network recovery, reliability, interoperability, need to be addressed before this technology can be used; 3) the cost and availability of customer premises equipment have not yet been addressed; 4) standards for this technology are not complete; 5) network monitoring systems have not been developed; and 6) the cost may be much higher than other solutions.

CERTIFICATE OF SERVICE

I hereby certify that on this 24th day of March, 1997 a copy of the foregoing "Joint Comments of Bell Atlantic and NYNEX on Notice of Inquiry" was served by hand on the parties on the attached list.

Tracev M. DeVaux

Mr. William F. Caton Office of the Secretary Federal Communications Commission 1919 M Street, NW Room 222 Washington, DC 20554

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